



Gulf of Mexico Harmful Algal Bloom Bulletin

19 April 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 16, 2007

Conditions Report

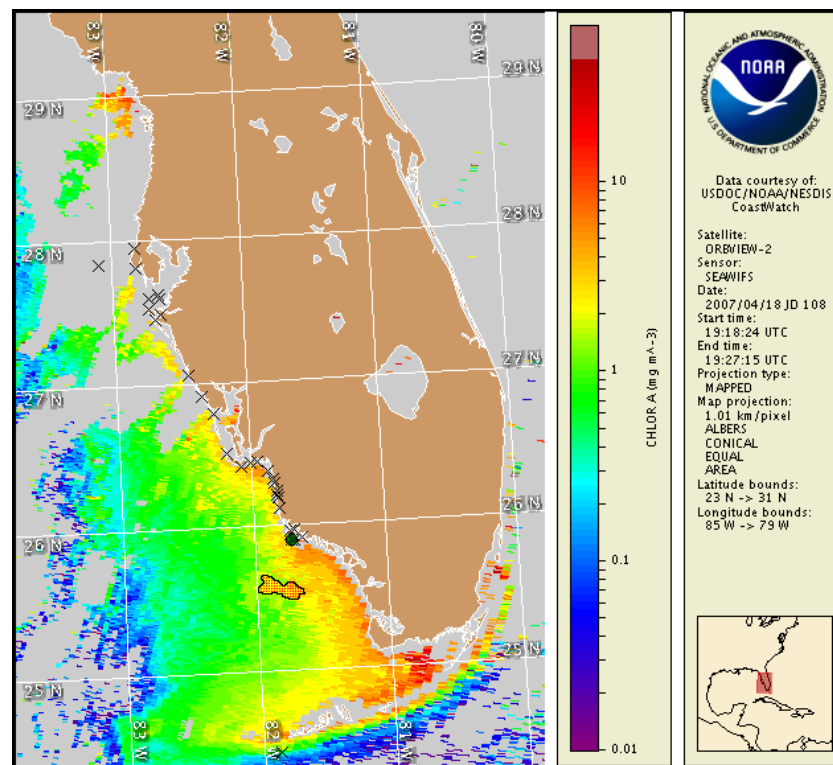
There is no indication of harmful algal bloom presence alongshore of southwest Florida. No impacts are expected in any Florida County through Sunday.

Analysis

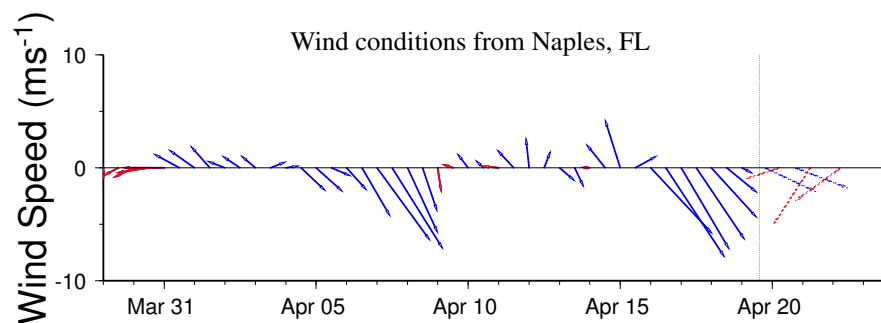
No *Karenia brevis* has been identified alongshore of southwest Florida or in the Keys over the past three weeks (FWRI, MML). Imagery indicates patches of elevated chlorophyll throughout southwest Florida, which are likely non-harmful algae. The elevated chlorophyll band located approximately 23 miles (38 km) south-southwest of Cape Romano (eastern extent: 25°33'47"N, 81°35'36"W; western extent: 25°35'8"N, 81°55'5"W) remains, although it has decreased to generally less than 3 $\mu\text{g/L}$. Northwest to northeast winds through Sunday may promote southward movement of the feature.

A large high chlorophyll patch shown on page 2 (up to 11 $\mu\text{g/L}$; center location: 27°48'23"N, 84°8'27"W) approximately 77 miles (124 km) offshore of Pinellas County is likely a non-harmful bloom from the panhandle area.

~Fenstermacher, Keller



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 9-18 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

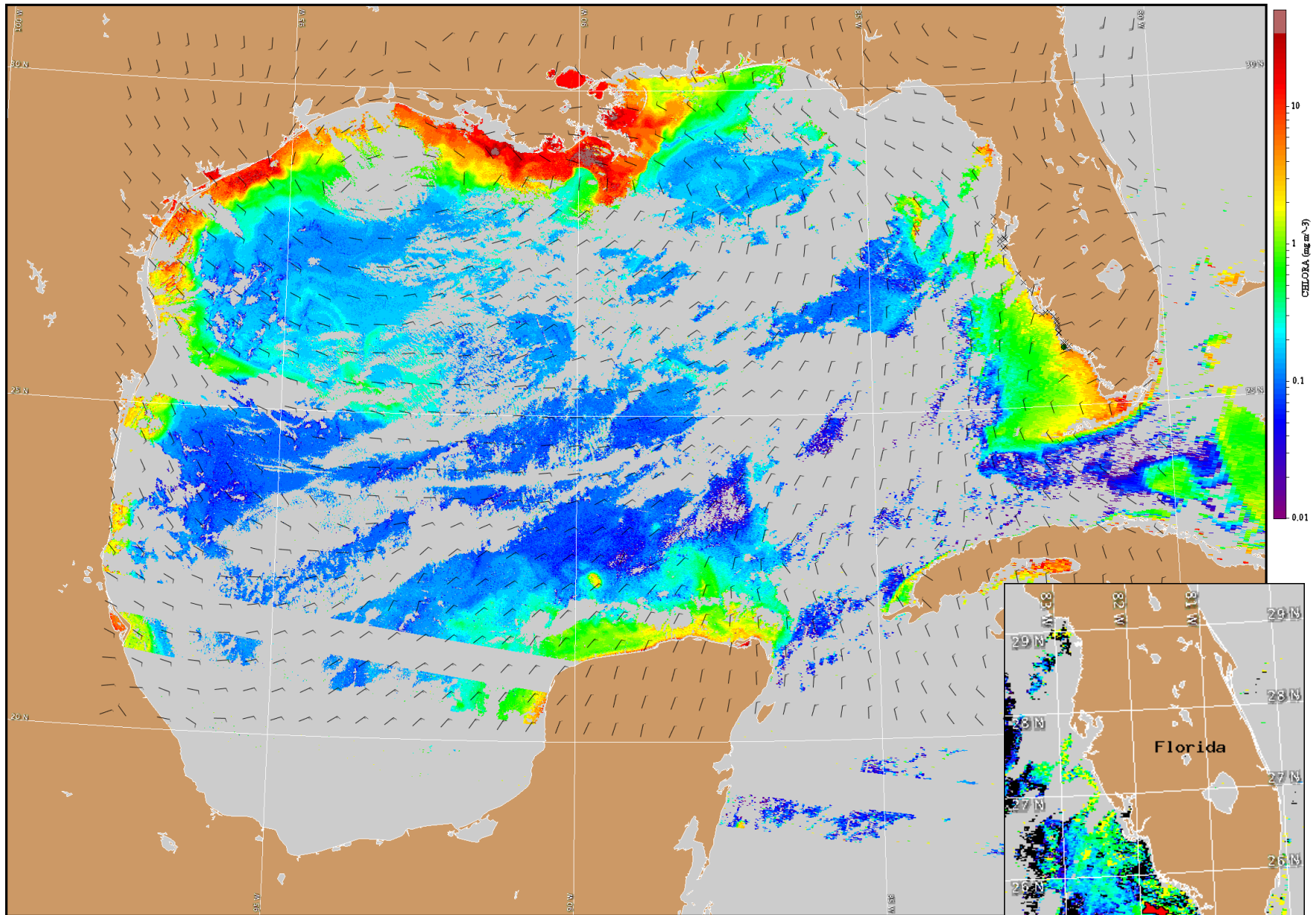


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northwest winds today followed by northerlies on Friday (10-15 knts; 5-8 m/s). Northeasterlies on Saturday through Sunday followed by easterlies Sunday night and Monday (5-15 knts; 3-8 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for April 20, 2007 06Z with cell concentration sampling data from April 9-18 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).